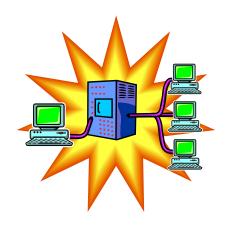


# DoD PKI Server Certificate Enabling For

# Microsoft Internet Information Server 4.0

Step 1: Generating a Key Pair and Requesting a Certificate



# PK-Enabling For Microsoft Internet Information Server (IIS 4.0)

# Step 1: Generating a Key Pair and Requesting a Certificate

This Document details how to generate a PKI key pair and request a server certificate using Microsoft Internet Information Server 4.0. It covers step 1 of a 2-step process. "Server Certificate Enabling for Microsoft Internet Information Server 4.0: Step 2: Obtaining/Installing a PKI Certificate" is a follow-up document. It details how to obtain and install a PKI server certificate as well as how to make the web server secure (https).

## Step 1: Generating a Key Pair and Requesting a Certificate

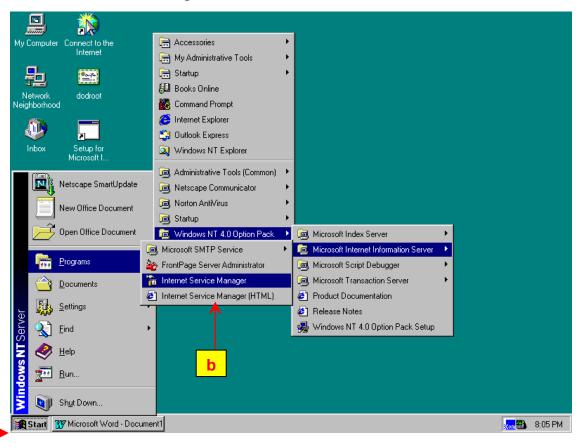
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NOTE: If you are have already received your Server Certificate Approval and your Certificate Serial Number (CSN) from your RA/LRA, but have not received "Server Certificate Enabling For Microsoft Internet Information Server 4.0 Step 2" please contact Inga George, georgei@spawar.navy.mil.

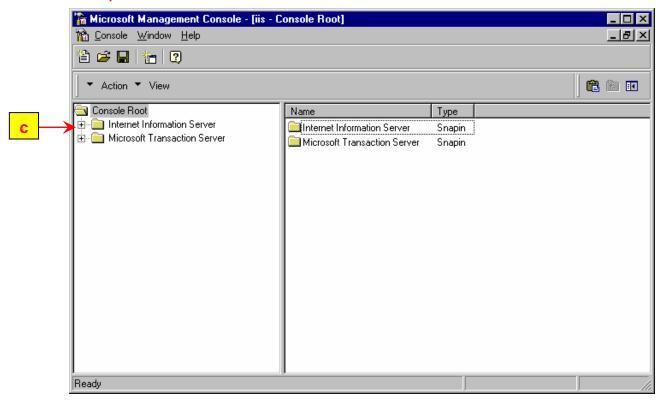
# PK-Enabling For Microsoft Internet Information Server (IIS 4.0)

\*\*The following must be installed before attempting to install DoD certificates onto your server. ALL SOFTWARE LISTED BELOW MUST BE 128-BIT.

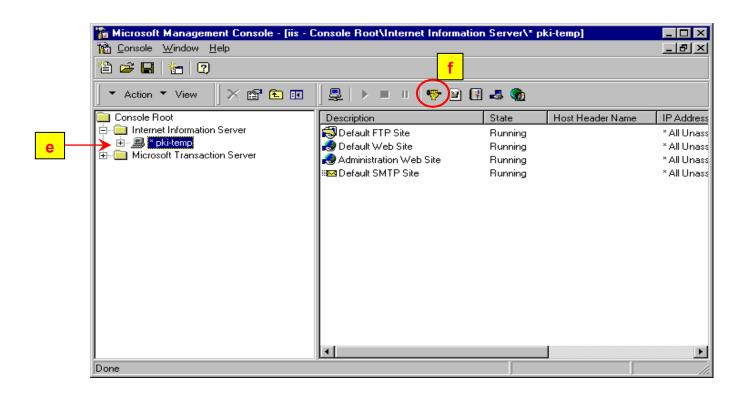
- 1. Windows NT 4.0 Option Pack with IIS
- 2. Netscape 4.5 or greater
- 3. IE 5.0 or greater
- 4. Service Pack 5 is applied after all other software is installed.
- 1. Generating a Key File.
  - a) Click Start
  - b) Programs, Windows NT 4.0 Option Pack, Microsoft Internet Server, Internet Service Manager.



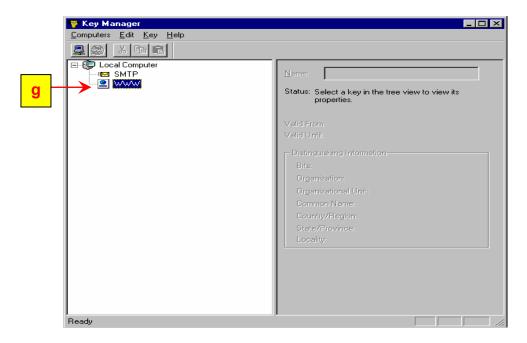
c) Select Internet Information Server



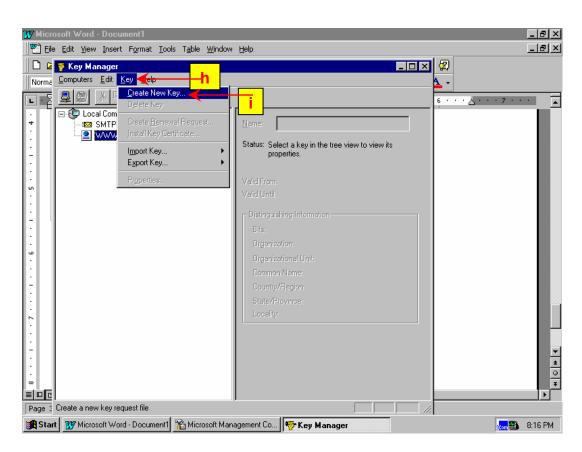
- d) Double click or click on the '+'.
- e) Select <server name>(ex. pki-temp)
- f) Click on the **Key Manager** icon (resembles a hand holding a key).



g) In the Key Manger window select WWW.

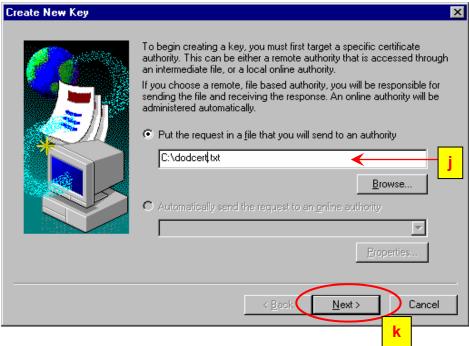


- h) Select the **Key** menu.
- i) Select Create New Key (This will start the Key Wizard).

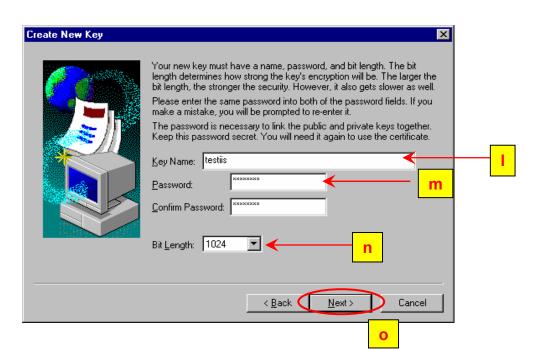


The first window asks if the request will be placed into a file to send to a CA or will be sent automatically to an online CA. **Choose the first one** (request in a file).

- Name the file C:\dodcert.text
- k) Click Next.

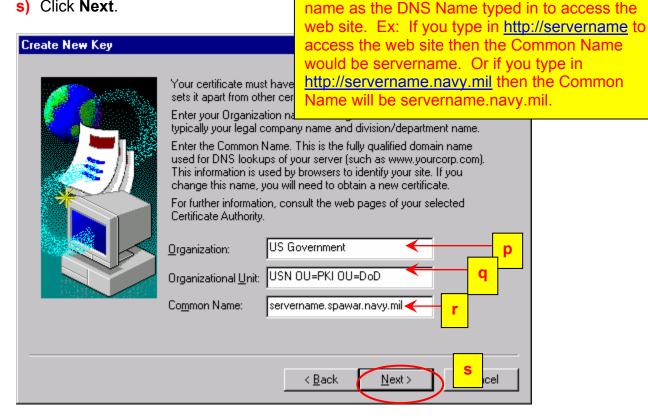


- I) Enter a name for the key (example is testis).
- m) Create an 8-character password with at least one non-alphabetic character.
- n) In the 'Bit Length' field, 1024 must be selected.
- o) Click Next.

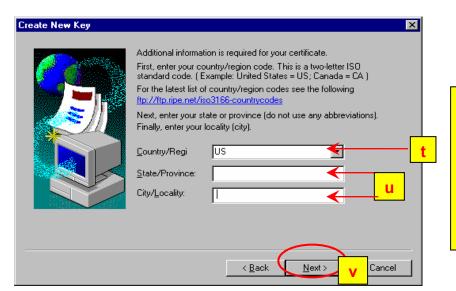


The next 3 screens asks for 'distinguished name' information and requestor's information. It is important to ensure the validity of all the entered information. Certain information is required and will be put in bold text. IIS 4.0 does not allow commas.

- p) For Organization, enter US Government
- q) For Organizational Unit, enter C/S/A ou=PKI ou=DoD (ex. USN ou=PKI ou = DoD
- r) For Common Name, enter the full name of the server. (ex. servername.spawar.navy.mil) **Note:** The Common Name must be the same
- s) Click Next.



- t) For Country/Region, enter US
- State/Province and City/Locality must be blank, but IIS 4.0 doesn't allow for blanks so for each field, press the spacebar once.
- v) Click Next.

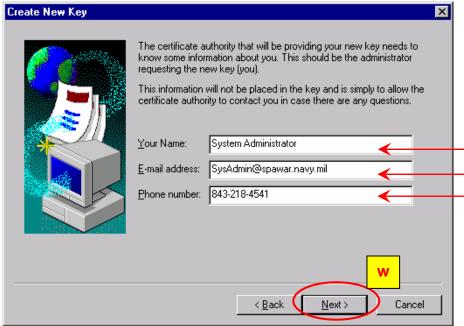


### Note:

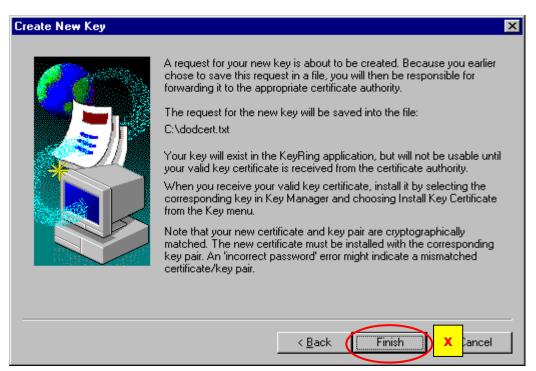
State/Province and City/Locality must be blank, but IIS 4.0 doesn't allow for blanks so for each field, press the spacebar once.

The following screen asks for the requestor's information. This is the Network System Administrator, Server Administrator, or LRA (Local Registration Authority). Must have a **valid email address** and **complete phone number**.

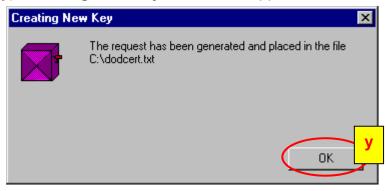
#### w) Click Next.



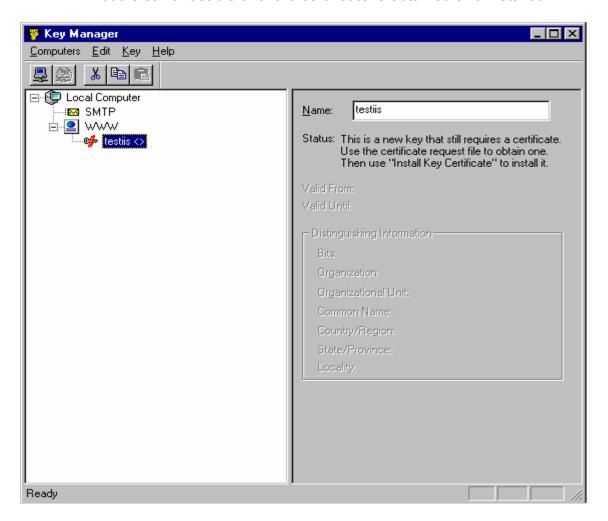
#### x) Click Finish.



y) Creating New Key window will appear. Click OK.

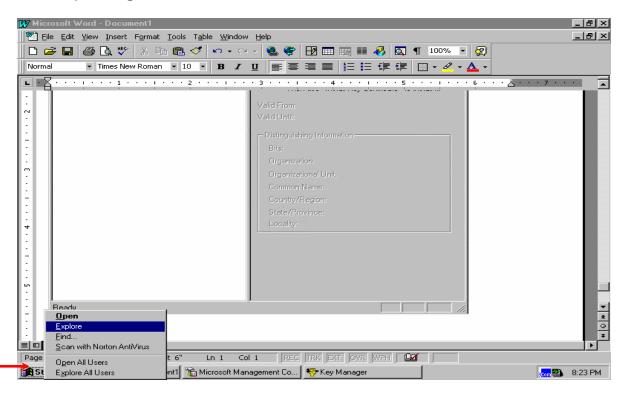


The following screen will appear showing that the key has been tied to the WWW but is still unusable until the certificate is obtained and installed.

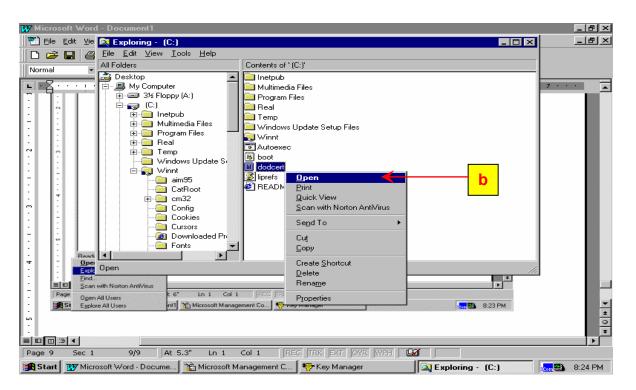


### 2. Requesting a Certificate.

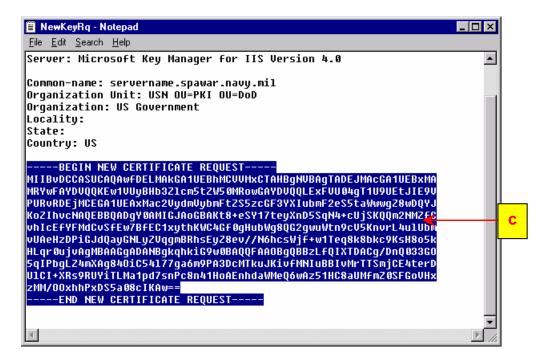
a



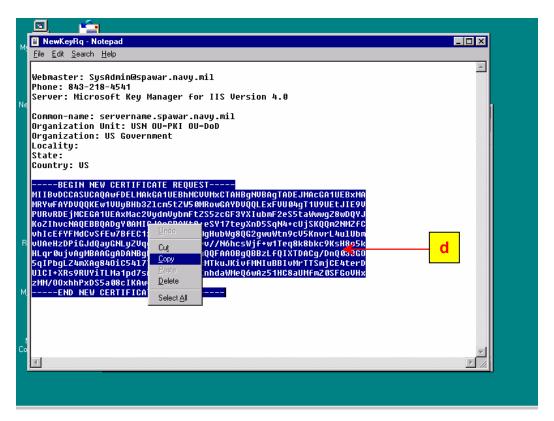
- a) Start Windows NT Explorer by right-clicking the Start button and selecting Explore.
- b) Open the file created in the previous section, **c:\dodcert.txt**. (Select the file, right-click, select **Open**).



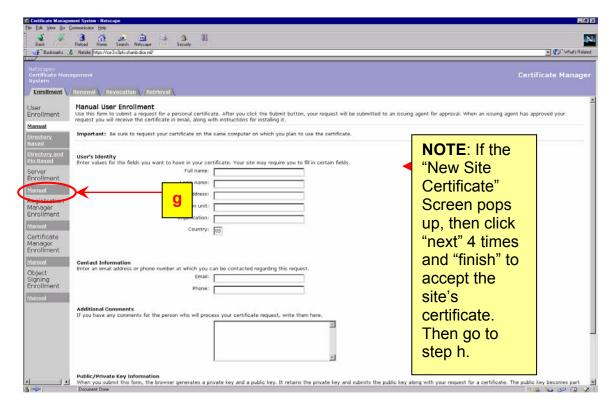
The file, **c:\dodcert.txt**, should appear like the screen below.



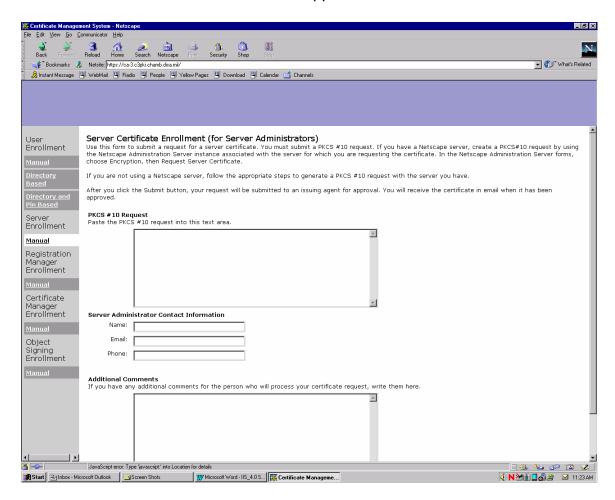
- c) Highlight the base-64 encoding to include ------BEGIN NEW ... thru END NEW...
- d) Copy the highlighted text to the clipboard.

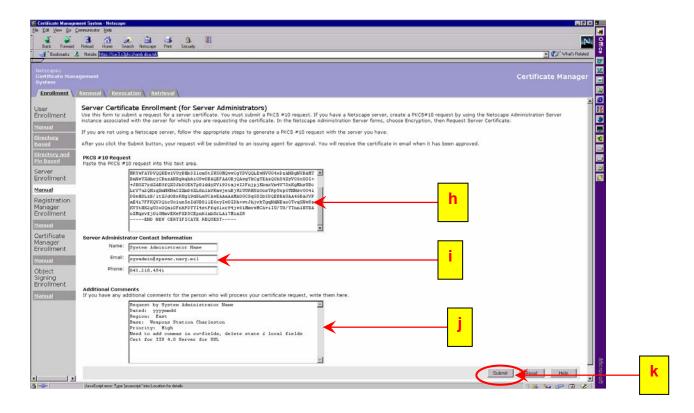


- e) Start Netscape or Internet Explorer (which ever is preferred).
- f) Go to site https://ca-3.c3pki.chamb.disa.mil. See Note below.
- g) Select Manual under Server Enrollment option.



The "Server Certificate Enrollment" will appear.





- h) Paste the base-64 encoding into the box labeled PKCS #10 Request.
- i) Fill out the Contact Info fields.
- j) In the Additional Comments to Issuing Agent text box, follow the example below.

**Request by** System Administrator Name

Date: yyyymmdd

Region: East Coast, West Coast

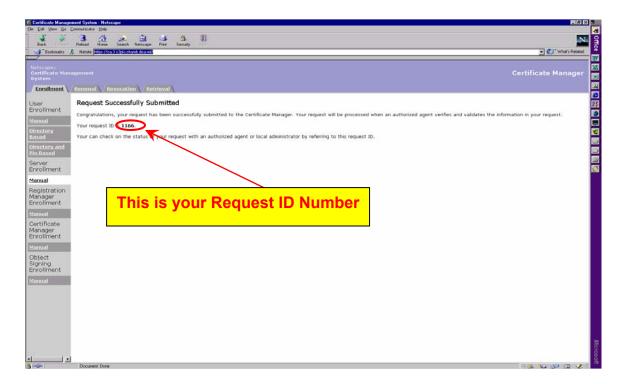
**Base:** Base Name **Priority:** High/Low

Need to add commas to 'ou' field and must delete the 'L' & 'St' fields from the CN.

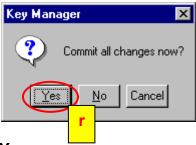
**Justification:** To enable SSL on the web server and/or for client authentication. \*\*All text shown in bold is to be entered exactly as shown. All other text is to be replaced with appropriate information as it pertains to your server/site.

k) Click Submit Request.

A confirmation page, 'Request Successfully Submitted' will contain request ID number. **Print this page**, if possible. If not, **retain the request ID number** some other way. It will be required to continue the certificate request process. An example Server Certificate Signing Request is shown on the next page.



- I) Close the browser.
- m) Close the notepad window.
- n) Close IIS windows.



- o) Click Yes.
- p) Click **Yes** on 'Change Settings to Console' window.

#### 3. Approval Notification.

a. The next step in the Server Certificate Request Process involves sending an email to Inga George, <a href="mailto:georgei@spawar.navy.mil">georgei@spawar.navy.mil</a> identifying by the request ID number produced at the end of the last section that the certificate request is ready for review. The email must contain the following (everything in bold is to be typed as shown with the rest of the information being replaced with what is appropriate for each individual server):

**Reference Number:** xxxx (with xxxx being the request ID number received

from the last section)

**Host Name:** <u>www.sample.navy.mil</u> (this is an example only)

**IP Address:** 102.21.12.12 (the server's ip address)

**Region:** East Coast Base: Base Name

Network System Administrator (NSA): Sgt John Doe

System Owner: JFCOM

**Security Level:** SBU (Sensitive But Unclassified)

**Applications on Server:** Development versions of the following:

SPAWAR PKI Home Page
 INFOSEC Home Page

#### Certification Justification/Requirements:

- To enable SSL on the server.
- a. The LRA/RA, upon receipt of the email, will review the request. If the request was done correctly and is approved, the LRA/RA will send an email that will contain a *Certificate Serial Number (CSN)*. The CSN must be utilized in order to download the certificate. If the request is not approved, the RA will notify the requestor/LRA why.
- **b.** If the requestor does not receive anything from the LRA/RA within 1 week after the email was sent, contact the LRA/RA by phone. The number is comm (843) 218-5574 or DSN 588-5574.
- c. When the email with the CSN has been received, refer to "Server Certificate Enabling for Microsoft Internet Information Server 4.0 Step 2: Obtaining/Installing PKI Server Certificate." If you do not receive a copy of this document within 2 days of receiving the CSN, please contact Inga George, <a href="mailto:georgei@spawar.navy.mil">georgei@spawar.navy.mil</a>.